Streamlining PBS Job File Transfers to Lou

Some users prefer to streamline the storage of files (created during a job run) to Lou, within a PBS job. Because direct access to the Lou storage nodes from the Pleiades compute nodes and from Endeavour has been disabled, all file transfers to Lou within a PBS job must first go through one of the Pleiades front-end systems (PFEs).

Here is an example of what you can add to your PBS script to accomplish this:

1. **ssh** to a PFE (for example, pfe*21*) and create a directory on lou where the files are to be copied.

   ```
   ssh -q pfe21 "ssh -q lou mkdir -p $SAVDIR"
   ```

   Here, $SAVDIR is assumed to have been defined earlier in the PBS script. Note the use of **-q** for quiet-mode, and double quotes so that shell variables are expanded prior to the **ssh** command being issued.
2. Use **scp** via a PFE to transfer the files.

   ```
   ssh -q pfe21 "scp -q $RUNDIR/* lou:$SAVDIR"
   ```

   Here, $RUNDIR is assumed to have been defined earlier in the PBS script.